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United States Department of Agriculture

Soil Conservation Service

Montana Basin Outlook Report February 1, 1993

January storms have not been as kind to Montana as with other areas in the west. Significant moisture producing storms generally tracked to the north and south of Montana leaving us with mostly dry and unseasonably warm, and in some areas record breaking, temperatures.

SNOWPACK

As of February 1, snowpack conditions in the fourteen major river basins of Montana are near to below average. Watershed snowpack extremes occur at Flint Creek and East Side Bitterroot in northwest Montana at 72 percent of average and 20 to 25 percent below last year and Bear Paw Mountains in northcentral Montana at 121 percent of average and 79 percent above last year at this time.

West of the Continental Divide, snowpacks are below to well below average and 10 to 25 percent below those of last year. East of the Continental Divide snowpacks are near to below average and near to 20 percent above those of last year, except in the Lower Yellowstone River Basin where snowpacks are 15 percent below those of last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
KOOTENAI	82	91
FLATHEAD	92	95
UPPER CLARK FORK	81	87
BITTERROOT	84	91
LOWER CLARK FORK	83	88
JEFFERSON	96	104
MADISON	105	123
GALLATIN	90	104
MAINSTEM MISSOURI	97	103
SMITH-JUDITH-MUSSELSHELL	92	105
SUN-TETON-MARIAS	83	87
ST. MARY AND MILK	85	91
UPPER YELLOWSTONE	81	96
LOWER YELLOWSTONE	81	85

PRECIPITATION

January mountain precipitation west of the Continental Divide was well below average and east of the Continental Divide ranged from below to near average. Water year precipitation west of the Continental Divide is below average and east of the Continental Divide is near to slightly below average.

Valley precipitation for January was quite varied, as the northwest and southwest received above normal snowfall. Northwest and southcentral Montana valley stations were below normal while central and southeast Montana were slightly above normal.

RIVER BASIN	JANUARY % OF AVERAGE	WATER YEAR % OF AVERAGE
KOOTENAI	67	83
FLATHEAD	63	88
UPPER CLARK FORK	57	85
BITTERROOT	55	80
LOWER CLARK FORK	56	80
JEFFERSON	73	91
MADISON	90	109
GALLATIN	71	101
MAINSTEM MISSOURI	78	95
SMITH-JUDITH-MUSSELSHELL	100	106
SUN-TETON-MARIAS	55	86
ST. MARY AND MILK	51	89
UPPER YELLOWSTONE	60	87
LOWER YELLOWSTONE	71	90

RESERVOIRS

Reservoir storages are well below average in the Flathead River, Bitterroot River, Jefferson River, and St. Mary and Milk River Basins; below average in the Kootenai River, Upper Clark Fork River, and Gallatin River Basins; near average in the Lower Clark Fork River, Madison River, Mainstem Missouri River, Sun-Teton-Marias River and Lower Yellowstone River Basins; and above average in the Smith-Judith-Musselshell River Basins.

RIVER BASIN	% OF CAPACITY	% OF AVERAGE
KOOTENAI	34	81
FLATHEAD	35	54
UPPER CLARK FORK	51	76
BITTERROOT	6	16
LOWER CLARK FORK	86	91
JEFFERSON	26	48
MADISON	71	105
GALLATIN	27	78
MAINSTEM MISSOURI	73	92
SMITH-JUDITH-MUSSELSHELL	66	120
SUN-TETON-MARIAS	50	109
ST. MARY AND MILK	26	60
UPPER YELLOWSTONE	46	96
LOWER YELLOWSTONE	63	101

STREAMFLOW

January streamflows have been well below average in the Kootenai River, Lower Clark Fork River, Bitterroot River, Upper Clark Fork River and Jefferson River Basins. The remainder of Montana's River Basins have been slightly below to slightly above average.

Assuming current conditions persist, seasonal volume streamflows are forecast to be below average for the Columbia River in Montana; below to near average for the Missouri River; and below average for the Yellowstone River.

RIVER BASIN	FORECASTS % OF AVERAGE	FORECASTS % OF LAST YEAR
KOOTENAI	83	88
FLATHEAD	87	96
UPPER CLARK FORK	77	92
BITTERROOT	78	97
LOWER CLARK FORK	80	98
JEFFERSON	84	85
MADISON	96	100
GALLATIN	95	111
MAINSTEM MISSOURI	82	83
SMITH-JUDITH-MUSSELSHELL	93	113
SUN-TETON-MARIAS	76	82
ST. MARY AND MILK	90	95
UPPER YELLOWSTONE	80	89
LOWER YELLOWSTONE	81	91

SOIL MOISTURE

Based on fall precipitation and streamflows and current soil moisture beneath the snowpack, soil moisture conditions in the Kootenai River, Lower Clark Fork River, Bitterroot River and Jefferson River Basins are well below average. All other basins are slightly below to near average.

SURFACE WATER SUPPLY INDEX

The Surface Water Supply Index (SWSI) is a measure of available surface water supplies during the spring and summer months. The index ranges from -4.0 to +4.0. A SWSI of -4.0 represents an extremely dry condition, 0 is a near normal condition and +4.0 represents an extremely wet condition. The SWSI provides a scale to evaluate various levels of wetness or dryness and water supply conditions across the state. The SWSI takes into account snowpack, mountain precipitation, soil moisture and available reservoir storage.

SWSI RATING	SURFACE WATER CONDITION
+3.0 to +4.0	Extremely Wet
+2.0 to +3.0	Moderately Wet
+1.0 to +2.0	Slightly Wet
-1.0 to +1.0	Near Average
-1.0 to -2.0	Slightly Dry
-2.0 to -3.0	Moderately Dry
-3.0 to -4.0	Extremely Dry

SWSI's as of February 1, 1993 for the remainder of the 1993 irrigation season.

SWSI	Basin
-2.9	Kootenai River at Ft. Steele (Kootenai in Canada)
-1.4	Tobacco River
-1.6	Kootenai Ft. Steele to Libby Dam
-1.6	Kootenai River below Libby Dam
-0.7	Fisher River
-2.1	Yaak River
-2.0	North Fork Flathead River
-1.6	Middle FORK Flathead River
-1.8	South Fork Flathead River
-1.8	Flathead River at Columbia Falls
-1.4	Stillwater/Whitefish Rivers
-1.4	Swan River
-1.9	Flathead River at Polson
-1.8	Mission Valley
-1.0	Little Bitterroot River
-2.4	Clark Fork River above Rock Creek
-1.5	Blackfoot River
-3.6	Bitterroot River
-2.1	Clark Fork River above Missoula
-2.6	Clark Fork River below Bitterroot River
-2.1	Clark Fork River below Flathead River
-1.5	Beaverhead River
0.5	Ruby River
-2.1	Big Hole River
-2.1	Boulder River (Jefferson)
-1.7	Jefferson River
0.9	Madison River
-0.2	Gallatin River
-0.5	Missouri River above Canyon Ferry
-0.7	Missouri River below Canyon Ferry
-0.9	Smith River

-2.1	Sun River
-1.8	Teton River
-2.5	Birch/Dupuyer Creeks
-1.9	Marias River
0.7	Musselshell River
-0.8	Missouri River above Ft. Peck
-1.4	Missouri River below Ft. Peck
-1.9	Milk River (USBR users)
-1.7	Milk River (other users)
-2.0	Yellowstone River above Livingston
-1.0	Shields River
-1.4	Boulder River (Yellowstone)
-1.0	Stillwater River
-2.0	Rock/Red Lodge Creeks
-2.0	Clarks Fork River
-1.8	Yellowstone River above Bighorn River
-1.0	Bighorn River below Bighorn Lake
-1.5	Little Bighorn River
-1.3	Yellowstone River below Bighorn River
-1.4	Tongue River
-2.3	Powder River

U.S. DEPARTMENT OF AGRICULTURE

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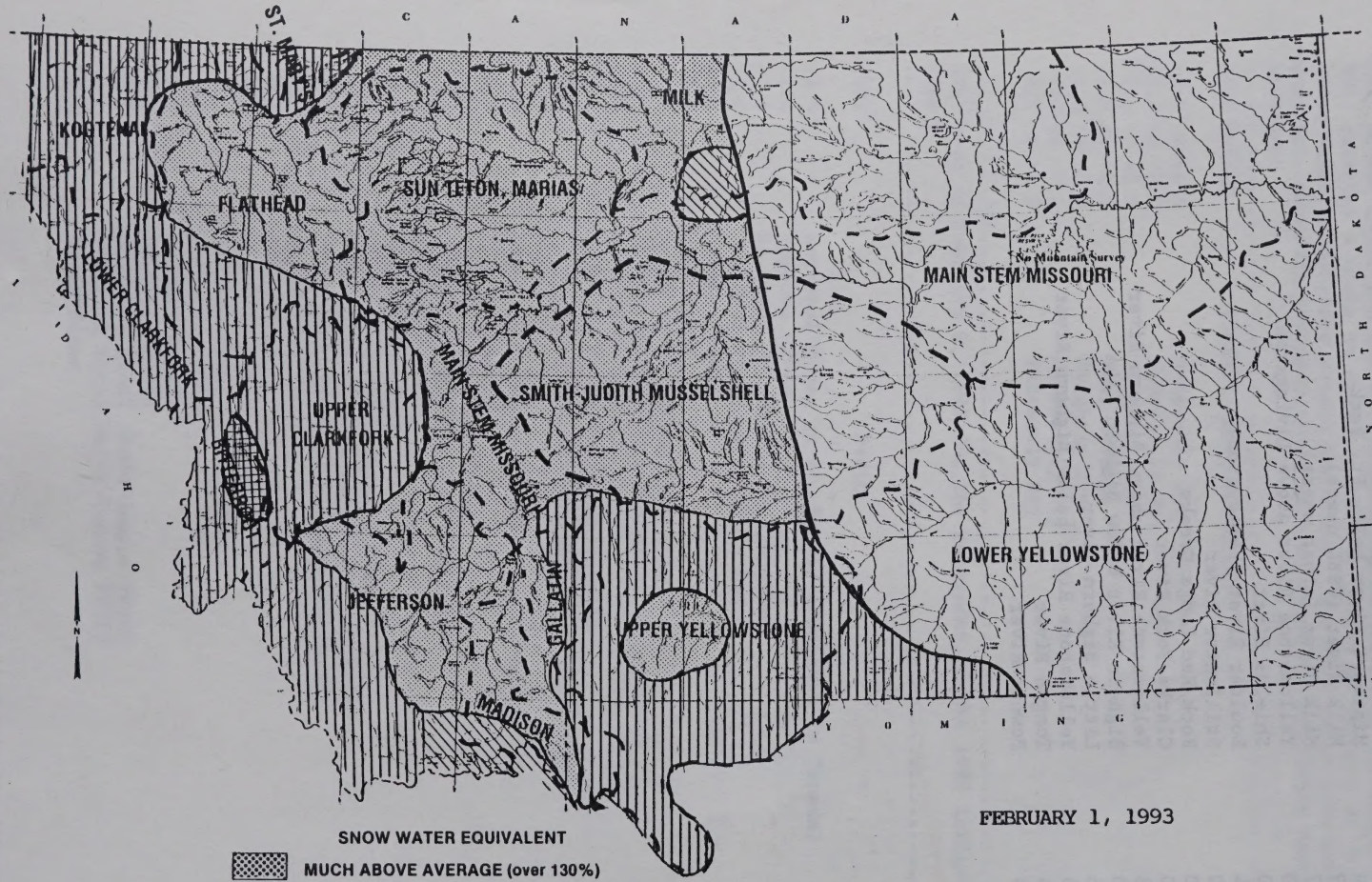
MOUNTAIN SNOWWATER EQUIVALENT FOR MONTANA



FEBRUARY 1, 1993

SNOW WATER EQUIVALENT

- MUCH ABOVE AVERAGE (over 130%)
- ABOVE AVERAGE (110-130%)
- NEAR AVERAGE (90-110%)
- BELOW AVERAGE (70-90%)
- MUCH BELOW AVERAGE (below 70%)
- NO MOUNTAIN SURVEY

0 25 50 75 100 MI

0 50 100 150 KM

SOURCE: Information pro... by SCS Snow Su... Personnel.

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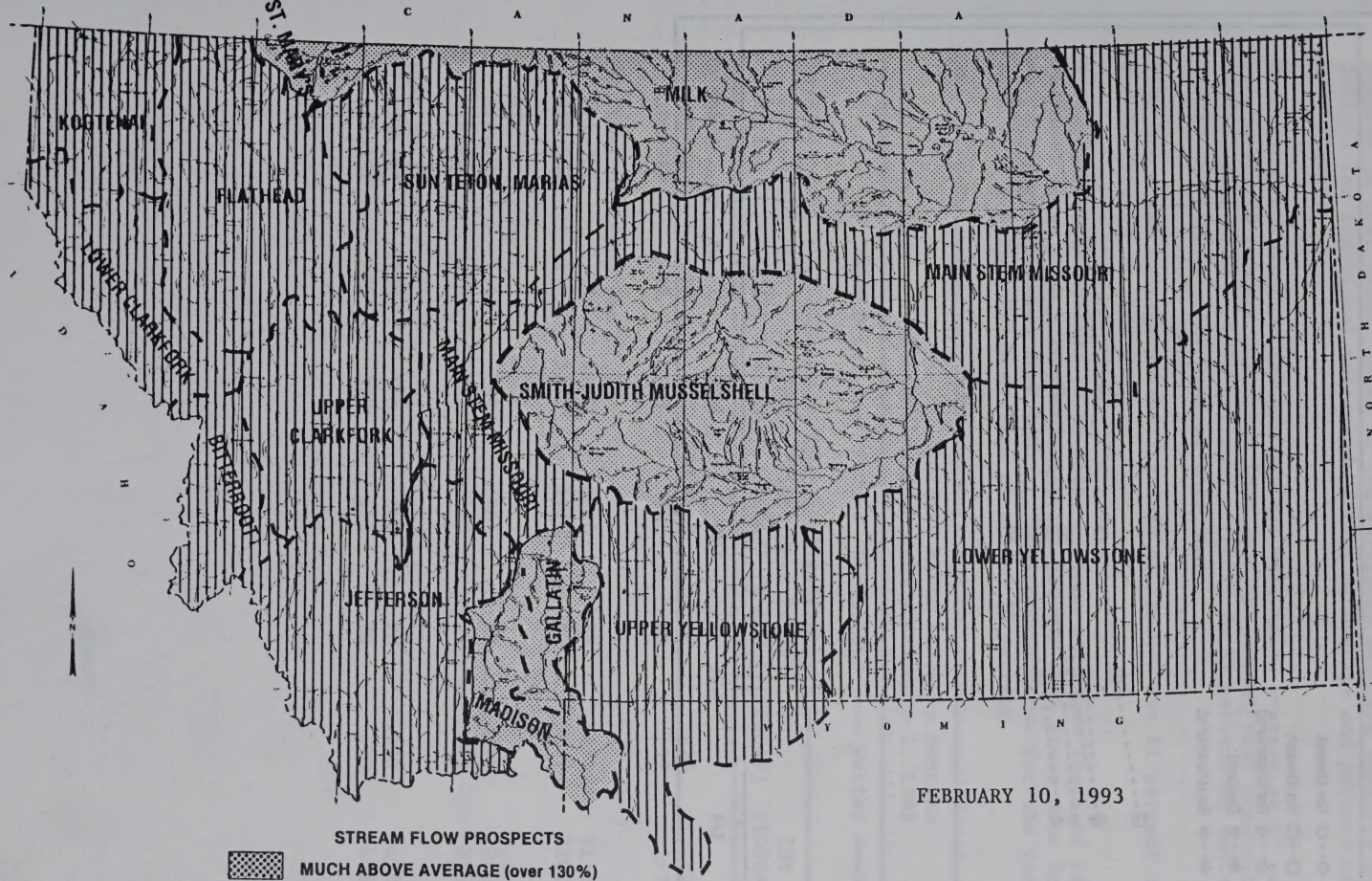
SOIL CONSERVATION SERVICE

STREAM FLOW PROSPECTS FOR MONTANA

Spring and Summer Period



FEBRUARY 10, 1993

STREAM FLOW PROSPECTS

- MUCH ABOVE AVERAGE (over 130%)
- ABOVE AVERAGE (110-130%)
- NEAR AVERAGE (90-110%)
- BELOW AVERAGE (70-90%)
- MUCH BELOW AVERAGE (below 70%)
- NOT FORECAST

0 25 50 75 100 MI

0 50 100 150 KM

SOURCE: Information provided by SCS Snow Survey Personnel.

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USDA SCS FORT WORTH, TEXAS 1989

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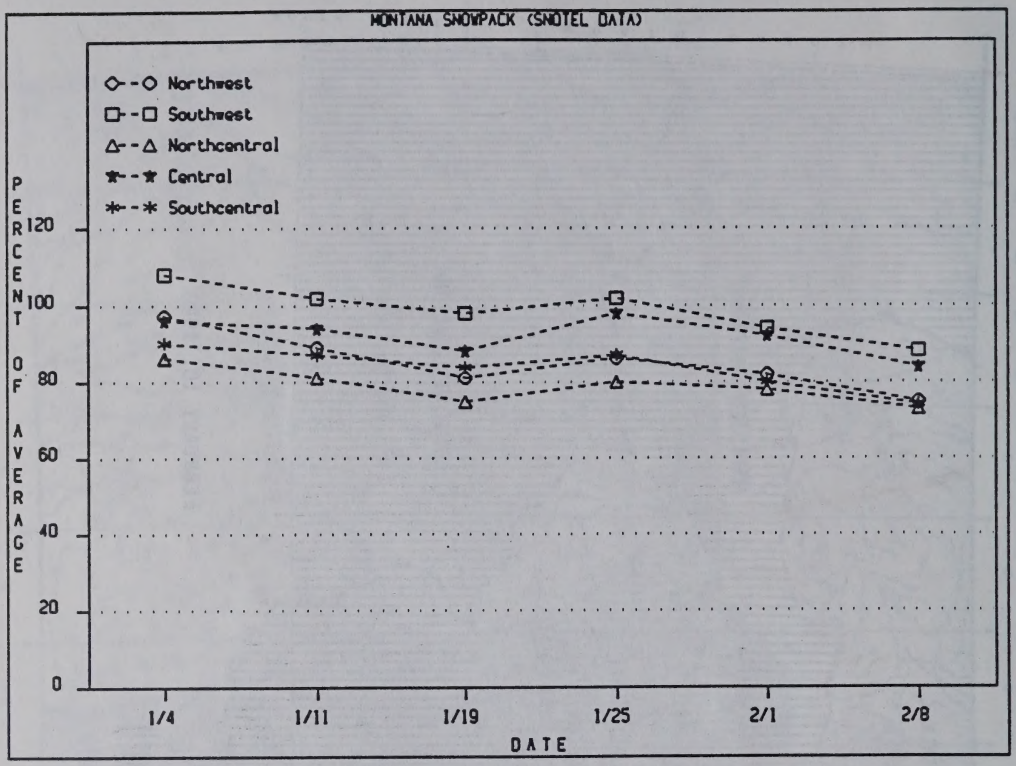
MONTANA SNOWPACK (SNOTEL DATA)
Northwest
Southwest
Northcentral
Central
Southcentral
PERCENT OF AVERAGE
120
100
80
60
40
20
0
1/4
1/11
1/19
1/25
2/1
2/8
DATE

KOOTENAI RIVER BASIN in Montana as of February 1, 1993

Snowpack conditions in the Kootenai River Basin slipped nine percent during January and are now below average and nearly 10 percent below last year. On February 1 the snow water content was 82 percent of average and 94 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation for January was well below average at 67 percent and was nearly 20 percent less than last January. Water year precipitation, beginning October 1, 1992, slipped slightly to 83 percent of average and is nearly the same as last year at this time.

Lake Koocanusa storage on the last day of January was 81 percent of average and 82 percent of last year.

Streamflows are forecast to be below average and below those of last year. Forecast range from a low of 70 percent for the Yaak River near Troy to 88 percent for the Fisher near Libby. January streamflow for the Yaak River near Troy was well below average at around 50 percent.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - February 1, 1993

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
TOBACCO nr Eureka							
APR-JUL	89	104	115	86	126	141	133
APR-SEP	97	115	127	86	139	157	147
KOOTENAI bl Libby Dam (1,2)							
APR-JUL	3540	4430	4840	83	5250	6150	5779
APR-SEP	4140	5190	5670	83	6150	7200	6772
FISHER nr Libby							
APR-JUL	145	181	205	87	230	265	234
APR-SEP	163	197	220	88	245	275	250
YAAK nr Troy							
APR-JUL	260	310	340	70	370	420	483
APR-SEP	275	320	355	70	390	435	505

KOOTENAI at Leonia (1,2)							
APR-JUL	4320	5450	5970	82	6490	7620	7199
APR-SEP	4960	6270	6860	82	7450	8760	8275

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that t actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
LAKE KOOCANUSA	5748.0	1939.0	2363.0	2381.0

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
EAST KOOTENAI in B.C.	18	67	67
KOOTENAI MAINTSTEM in MT	10	92	83
TOBACCO	2	89	84
FISHER	1	101	94
YAAK	6	94	83
KOOTENAI in MT	14	91	82
KOOTENAI ab Bonners Ferry	32	79	75

FLATHEAD RIVER BASIN as of February 1, 1993

Snowpack conditions in the Flathead River Basin are near average. Snow water content was 102 percent of average and 96 percent of last year. North Fork Flathead Basin water content was 91 percent of average, Middle Fork Flathead Basin was 96 percent of average, South Fork Flathead Basin was 114 percent of average, Stillwater-Whitefish basins were 106 percent of average, Swan Basin was 109 percent of average, Mission Valley Basin was 103 percent of average, Little Bitterroot-Ashley Basins were 109 percent of average and Jocko Basin was 98 percent of average.

Mountain precipitation during January was well below average at 63 percent and was around 20 percent less than last January. Water year precipitation, beginning October 1, 1992, was slightly below average at 88 percent, dropping 11 percent from last month, and was nearly the same as last year at this time.

Reservoir storage on the last day of January was 54 percent of average and 69 percent of last year. Combined Camas reservoir storage was 86 percent of average and 55 percent of last year, combined Mission Valley reservoir storage was 69 percent of average and 94 percent of last year, Hungry Horse storage was 47 percent of average and 56 percent of last year and Flathead Lake storage was 68 percent of average and 104 percent of last year.

Streamflows are forecast to be slightly below average and near those of last year. Forecast streamflows range from a low of 84 percent for the North Fork Flathead River near Columbia Falls to a high of 94 percent for the Stillwater River near Whitefish. January streamflow at the North Fork Flathead near Columbia Falls was well below average at around 65 percent, the Middle Fork Flathead near West Glacier was well below average at about 60 percent and the South Fork Flathead near Columbia Falls was near average at 110 percent.

FLATHEAD RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt	<--- Drier --- Future Conditions --- Wetter --->						
	Chance of Exceeding *						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
NF FLATHEAD nr Columbia Falls							
APR-JUL	1210	1320	1400	84	1480	1600	1662
APR-SEP	1350	1480	1560	84	1640	1770	1836
MF FLATHEAD nr West Glacier							
APR-JUL	1160	1320	1430	87	1540	1700	1638
APR-SEP	1270	1440	1560	87	1680	1850	1788
SF FLATHEAD nr Columbia Fls (1,2)							
APR-JUL	1390	1690	1830	89	1970	2270	2051
APR-SEP	1490	1810	1950	89	2090	2410	2184
FLATHEAD at Columbia Falls (2)							
APR-JUL	3950	4410	4730	86	5050	5510	5482
APR-SEP	4340	4840	5180	86	5520	6020	5960

STILLWATER nr Whitefish							
APR-JUL	143	164	178	94	192	215	189
APR-SEP	160	182	197	94	210	235	209
WHITEFISH nr Kalispell							
APR-JUL	77	89	97	93	105	117	104
APR-SEP	89	101	109	93	117	129	116
SWAN nr Bigfork							
APR-JUL	425	480	520	89	560	615	583
APR-SEP	485	545	590	88	635	695	665
FLATHEAD nr Polson (1,2)							
APR-JUL	4310	5160	5540	86	5920	6770	6390
APR-SEP	4690	5600	6020	86	6440	7350	6926

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

FLATHEAD RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
CAMAS (4)	45.2	16.7	30.2	19.4
MISSION VALLEY (8)	100.0	24.9	26.5	36.2
HUNGRY HORSE	3451.0	1103.0	1984.0	2362.0
FLATHEAD LAKE	1791.0	749.2	717.0	1095.0

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NORTH FORK FLATHEAD	12	98	90
MIDDLE FORK FLATHEAD	6	88	84
SOUTH FORK FLATHEAD	7	91	95
STILLWATER-WHITEFISH	5	116	104
SWAN	10	91	91
MISSION VALLEY	5	94	89
LITTLE BITTERROOT-ASHLEY	5	122	110
JOCKO	7	94	93
FLATHEAD	39	96	92

UPPER CLARK FORK RIVER BASIN as of February 1, 1993

Snowpack conditions in the Upper Clark Fork River Basin are below average and dropped nine percent from last month. Snow water content was 81 percent of average and 87 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation for January was well below average at 57 percent and was slightly above last January. Water year precipitation, beginning October 1, 1992, dropped below average to 85 percent and is 94 percent of last year.

Reservoir storage on the last day of January was 76 percent of average and 71 percent of last year. Georgetown Lake storage was 78 percent of average and 78 percent of last year and Lower Willow Creek storage was 73 percent of average and 78 percent of last year.

Streamflows are forecast to be below average and slightly below last year. Forecasts range from a low of 72 percent for the Lower Willow Creek Reservoir inflow to 87 percent for Warm Springs Creek at Anaconda and Little Blackfoot near Garrison. January inflow at Moulton Reservoir was well below average at about 20 percent, Flint Creek near Southern Cross was well below average at about 20 percent, Rock Creek near Clinton was well below average at about 60 percent, Blackfoot River near Bonner was below average at about 70 percent, Clark Fork River above Milltown was well below average at about 50 percent and the Clark Fork River above Missoula was well below average at about 55 percent and the Clark Fork River at Missoula was well below average at about 65 percent.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<== Drier == Future Conditions == Wetter ==> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MOULTON RES inflow (million gal.)							
APR-JUN	76	130	166	78	200	255	212
APR-JUL	79	139	180	76	220	280	234
WARM SPRINGS CK at Anaconda (2)							
APR-JUL	21	28	33	86	38	45	38
APR-SEP	29	37	42	89	48	56	47
LITTLE BLACKFOOT nr Garrison							
APR-JUL	15.0	49	72	86	95	129	83
APR-SEP	18.0	55	79	88	104	140	89
FLINT CK nr Southern Cross (2)							
APR-JUL	5.0	8.5	10.8	76	13.1	16.6	14.2
APR-SEP	5.6	9.9	12.8	76	15.7	20	16.7
FLINT CK bl Boulder Ck							
APR-JUL	21	34	43	75	52	65	57
APR-SEP	27	43	54	73	65	81	73

LOWER WILLOW CK RES inflow							
APR-JUL	3.5	7.4	10.1	72	12.8	16.7	14.0
APR-SEP	3.9	7.9	10.7	72	13.5	17.5	14.8
MF ROCK CK nr Philipsburg							
APR-JUL	37	46	53	80	60	69	66
APR-SEP	41	52	59	79	66	77	74
ROCK CK nr Clinton							
APR-JUL	152	192	220	74	250	290	296
APR-SEP	176	220	250	75	280	325	333
NEVADA CK nr Finn							
APR-JUL	5.7	11.4	15.2	79	19.0	25	19.1
APR-SEP	6.8	12.7	16.8	80	21	27	21
CLEARWATER nr Clearwater							
APR-JUL	116	132	143	83	154	170	172
APR-SEP	123	140	151	83	162	179	181
BLACKFOOT nr Bonner							
APR-JUL	460	560	630	75	700	800	835
APR-SEP	515	625	700	75	775	885	926
CLARK FORK ab Milltown							
APR-JUL	255	405	510	78	615	765	652
APR-SEP	315	480	595	78	710	875	755
CLARK FORK ab Missoula							
APR-JUL	760	985	1140	76	1290	1520	1487
APR-SEP	885	1130	1300	77	1470	1720	1681

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
GEORGETOWN LAKE	31.0	22.9	29.5	27.0
LOWER WILLOW CREEK	4.9	1.1	1.4	1.5
NEVADA CREEK	12.6	0.8	3.9	4.3

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
CLARK FORK ab FLINT CREEK	14	80	79
FLINT CREEK	8	78	72
ROCK CREEK	1	71	67
CLARK FORK ab BLACKFOOT	23	80	77
BLACKFOOT	16	91	84
UPPER CLARK FORK	36	85	80

BITTERROOT RIVER BASIN as of February 1, 1993

Snowpack conditions in the Bitterroot River Basin have dropped to well below average decreasing by 16 percent from January 1. Snow water content was 84 percent of average and 91 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation for January was well below average at 55 percent and was 117 percent of last year. Water year precipitation, beginning October 1, 1992, dropped to below average at 80 percent and was 85 percent of last year.

Reservoir storage on the last day of January was 16 percent of average and 50 percent of last year. Painted Rocks Lake storage was 18 percent of average and 460 percent of last year and Como storage was 13 percent of average and 21 percent of last year (Como Lake was drained to rework the dam).

Streamflows are forecast to be below average and slightly less than those of last year. Forecasts range from a low of 71 percent for the West Fork Bitterroot River near Conner and a high of 86 percent for Rock Creek near Darby. January streamflow for the Bitterroot near Darby was well below average at about 65 percent and the Bitterroot at Missoula was well below average at about 65 percent.

BITTERROOT RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<== Drier == Future Conditions == Wetter ==> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
WF BITTERROOT nr Conner (2)							
APR-JUL	66	91	108	71	125	150	152
APR-SEP	71	97	115	69	133	159	166
BITTERROOT nr Darby							
APR-JUL	265	335	385	78	435	505	491
APR-SEP	310	380	430	79	480	550	540
ROCK CK nr Darby (2)							
APR-JUL	54	63	68	86	74	82	79
APR-SEP	58	66	72	86	78	86	83
SKALKAHO CK nr Hamilton							
APR-JUL	23	29	33	71	37	43	46
APR-SEP	28	34	39	73	44	50	53
BURNT FORK CK nr Stevensville (2)							
APR-JUL	13.0	18.0	21	72	24	29	29
APR-SEP	16.0	21	25	73	29	34	34

BITTERROOT at Missoula							
APR-JUL	770	925	1030	79	1140	1290	1301
APR-SEP	855	1020	1130	79	1240	1400	1418

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

BITTERROOT RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
PAINTED ROCKS LAKE	31.7	2.3	0.5	12.7
COMO	34.9	1.5	7.1	11.1

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WEST FORK BITTERROOT	3	93	87
EAST SIDE BITTERROOT	2	73	72
WEST SIDE BITTERROOT	6	95	86
BITTERROOT	11	91	84

LOWER CLARK FORK RIVER BASIN as of February 1, 1993

Snowpack conditions in the Lower Clark Fork River Basin are below average decreasing by 15 percent from January 1. Snow water content was 81 percent of average and 87 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation during January was well below average at 56 percent and was 84 percent of last year. Water year precipitation, beginning October 1, 1992, was below average and dropped slightly to 80 percent of average and 89 percent of last year.

Noxon Rapids storage on the last day of January was 91 percent of average and 92 percent of last year.

Streamflows are forecast to be below average at 80 percent and about the same as last year. Forecast streamflows ranged from a low of 72 percent for Thompson Falls near Thompson Falls to a high of 91 percent for Prospect Creek at Thompson Falls. January streamflow for the Clark Fork River below Missoula was well below average at about 60 percent and the Clark Fork River at St. Regis was well below average at about 40 percent.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
CLARK FORK bl Missoula							
APR-JUL	1580	1930	2170	78	2410	2760	2788
APR-SEP	1780	2160	2420	78	2680	3060	3099
CLARK FORK at St. Regis (1)							
APR-JUL	2030	2360	2830	76	3280	3690	3686
APR-SEP	2250	2620	3140	76	3640	4100	4095
CLARK FORK nr Plains (1,2)							
APR-JUL	5480	7540	8480	81	9420	11500	10450
APR-SEP	6020	8290	9320	81	10300	12600	11470
THOMPSON RIVER nr Thompson Falls							
APR-JUL	100	133	155	72	177	210	214
APR-SEP	117	152	176	73	200	235	240
PROSPECT CREEK at Thompson Falls							
APR-JUL	64	80	91	73	102	118	123
APR-SEP	71	88	99	75	110	127	132

CLARK FK at Whitehorse Rpds (1,2)							
APR-JUL	6100	8470	9540	81	10600	13000	11730
APR-SEP	6720	9320	10500	81	11700	14300	12910

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that t actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
NOXON RAPIDS	335.0	286.6	310.4	314.2

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER CLARK FORK	36	85	80
BITTERROOT	11	91	84
LOWER CLARK FORK	13	88	83
CLARK FORK TOTAL	55	87	82
FLATHEAD	31	94	90
PEND OREILLE	86	91	86

JEFFERSON RIVER BASIN as of February 1, 1993

Snowpack conditions in the Jefferson River Basin remain near average. Snow water content was 96 percent of average and 104 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation for January was below average at 73 percent and nearly twice that of last year at 189 percent of last year. Water year precipitation, beginning October 1, 1992, remains near average at 91 percent and was 96 percent of last year.

Reservoir storage on the last day of January was 48 percent of average and 66 percent of last year. Lima storage was 0 percent of average and 0 percent of last year, Clark Canyon storage was 52 percent of average and 69 percent of last year and Ruby River storage was 90 percent of average and 86 percent of last year.

Streamflows are forecast to be below average and below those of last year. Forecast streamflows range from a low of 78 percent for the Big Hole River near Melrose and a high of 96 percent for the Ruby River near Alder. January streamflow on the Beaverhead River near Grant was well below average at about 65 percent and the Big Hole River near Melrose was well below average at about 65 percent and below those of last January.

JEFFERSON RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
RED ROCK RIVER near Monida (2)							
APR-JUL	50	70	83	85	96	116	97
APR-SEP	51	73	88	83	103	125	105
BEAVERHEAD RIVER near GRANT (2)							
APR-JUL	46	89	118	89	147	190	132
APR-SEP	45	96	131	84	166	215	155
BEAVERHEAD RIVER at Barretts (2)							
APR-JUL	84	127	156	90	185	230	172
APR-SEP	94	143	176	86	210	260	203
RUBY RIVER near Alder							
APR-JUL	52	69	80	96	92	109	83
APR-SEP	63	83	96	96	110	129	99
BIG HOLE RIVER near Melrose							
APR-JUL	300	420	500	78	580	700	641
APR-SEP	330	460	545	78	630	760	697
BOULDER RIVER near Boulder							
APR-JUL	35	59	76	89	93	117	85
APR-SEP	38	64	82	90	100	126	91

WILLOW CREEK near Harrison							
APR-JUL	4.0	10.4	14.7	83	19.0	25	17.7
APR-SEP	4.5	11.6	16.4	82	21	28	20
JEFFERSON RIVER near Three Forks (2)							
APR-JUL	320	595	785	85	975	1250	920
APR-SEP	370	665	865	86	1070	1360	1003

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

JEFFERSON RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
LIMA	84.0	0.0	11.8	33.4
CLARK CANYON	255.6	75.8	109.6	144.7
RUBY RIVER	38.8	21.5	25.1	23.8

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BEAVERHEAD	13	121	102
RUBY	5	102	100
BIGHOLE	10	83	79
BOULDER	10	78	82
JEFFERSON	31	101	93

MADISON RIVER BASIN as of February 1, 1993

Snowpack conditions in the Madison River Basin are near average dropping 10 percent from January 1. Snow water content was 105 percent of average and 123 percent of last year. The Upper Madison River Basin has about a third more snow now than last year at this same time. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation during January was near average at 90 percent and more than three times that of last year. Water year precipitation, beginning October 1, 1992, was near average at 109 percent and was 120 percent of last year.

Reservoir storage on the last day of January was 105 percent of average and 107 percent of last year. Ennis Lake storage was 93 percent of average and 107 percent of last year and Hebgen Lake storage was 105 percent of average and 107 percent of last year.

Streamflows are forecast to be near average at 96 percent and about the same as those of last year. January streamflow at the Madison River near Grayling was below average at about 85 percent and about the same as last January and the Madison River near McAllister was below average at about 85 percent and well below last January.

MADISON RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MADISON RIVER near Grayling				(2)			
APR-JUL	335	375	400	105	425	465	380
APR-SEP	435	485	515	105	545	595	486
MADISON RIVER near McAllister				(2)			
APR-JUL	485	555	600	90	645	715	662
APR-SEP	625	705	755	90	805	885	831

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MADISON RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
ENNIS LAKE	41.0	31.7	29.6	34.0
HEBGEN LAKE	377.5	263.6	247.1	246.8

MADISON RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MADISON above HEBGEN	10	133	107
LOWER MADISON	7	111	102
MADISON	17	123	105

GALLATIN RIVER BASIN as of February 1, 1993

Snowpack conditions in the Gallatin River Basin remain near average, but decreased 10 percent during January. Snow water content was 90 percent of average and 104 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation during January was below average at 71 percent but was nearly twice that received last January. Water year precipitation, beginning October 1, 1992, was near average at 101 percent and was 121 percent of last year.

Middle Creek storage on the last day of January was 78 percent of average and 100 percent of last year.

Streamflows are forecast to be near average and slightly above those of last year. Forecast streamflows range from a low of 83 percent for the East and West Forks of Hyalite Creek near Bozeman to a high of 101 percent for the Gallatin River near Gateway. January streamflow for the Gallatin River near Gateway was near average at about 90 percent and about 85 percent of last year and the Gallatin River at Logan was slightly below average at about 95 percent and below last year.

GALLATIN RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
GALLATIN RIVER near Gateway							
APR-JUL	365	410	445	100	480	525	441
APR-SEP	430	485	520	100	555	610	518
E & W FK HYALITE CREEK near Bozeman							
APR-JUL	14.6	17.3	19.1	83	21	24	23
APR-SEP	17.0	20	22	84	24	27	26
HYALITE CREEK near Bozeman (2)							
APR-JUL	24	28	31	86	34	39	36
APR-SEP	29	34	37	88	40	45	42

GALLATIN RIVER at Logan							
APR-JUL	315	400	455	91	515	595	498
APR-SEP	395	480	540	92	600	685	581

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

GALLATIN RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
MIDDLE CREEK	10.2	2.8	2.8	3.6

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER GALLATIN	6	116	100
EAST GALLATIN	7	95	79
GALLATIN	12	105	90

MAINSTEM MISSOURI RIVER BASIN as of February 1, 1993

Snowpack conditions in the Mainstem Missouri River Basin remain near average, but increased only 4 percent during January. Snow water content was 97 percent of average and 103 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation during January was below average at 78 percent and was 143 percent of last year. Water year precipitation, beginning October 1, 1992, remained near average at 95 percent and was 105 percent of last year.

Reservoir storage on the last day of January was 92 percent of average and 98 percent of last year. Canyon Ferry Lake storage was 91 percent of average and 98 percent of last year, Helena Valley storage was 115 percent of average and 110 percent of last year, Lake Helena storage was 106 percent of average and 98 percent of last year, Hauser & Helena storage was 103 percent of average and 99 percent of last year, Holter Lake storage was 112 percent of average and 101 percent of last year and Fort Peck Lake storage was 70 percent of average and 88 percent of last year.

Streamflows are forecast to be below average at 82 percent and 83 percent of last year. Forecast streamflows range from a low of 80 percent for the Missouri River below Fort Peck and a high of 86 percent for the Missouri River at Toston. January streamflow for the Missouri River near Toston was near average at about 100 percent and below last year and the Missouri River below Fort Peck was well below average at about 60 percent and below last January.

MAINSTEM MISSOURI RIVER BASIN
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MISSOURI RIVER at Toston				(2)			
APR-JUL	1010	1470	1790	86	2110	2570	2075
APR-SEP	1270	1770	2100	87	2430	2930	2411
PRICKLY PEAR CREEK near Clancy							
APR-JUL	3.7	13.4	20	86	27	36	23
APR-SEP	6.0	17.0	24	88	31	42	27
SUN RIVER at Gibson Dam				(2)			
APR-JUL	275	350	405	84	460	535	478
APR-SEP	310	395	450	85	505	590	526
MISSOURI RIVER at Fort Benton				(2)			
APR-JUL	1330	2110	2630	85	3150	3930	3087
APR-SEP	1930	2580	3130	84	3680	4380	3711
MARIAS RIVER near Shelby				(2)			
APR-JUL	106	215	285	63	355	465	447
APR-SEP	122	230	305	62	380	490	487

MISSOURI RIVER at Virgelle				(2)			
APR-JUL	1750	2430	2900	80	3370	4050	3595
APR-SEP	2060	2980	3430	81	3880	5130	4207
MISSOURI RIVER near Landusky				(2)			
APR-JUL	2220	2800	3200	82	3600	4180	3897
APR-SEP	2240	3420	3790	82	4160	5730	4580
MISSOURI RIVER below Fort Peck				(2)			
APR-JUL	2040	2730	3200	79	3670	4360	4015
APR-SEP	2010	3220	3670	82	4120	5540	4467
LAKE SAKAKAWEA Inflow (2)							
APR-JUL	4230	6650	8300	82	9950	12400	10120
APR-SEP	5670	7320	9250	82	11200	13300	11346

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MAINSTEM MISSOURI RIVER BASIN
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
CANYON FERRY LAKE	2043.0	1452.0	1488.0	1596.0
HELENA VALLEY	9.2	5.4	4.9	4.7
LAKE HELENA	10.4	10.9	11.1	10.3
HAUSER & HELENA	61.9	63.0	63.6	61.3
HOLTER LAKE	81.9	81.5	80.9	72.9
FORT PECK LAKE (MAF)	18.9	10.5	11.8	14.9

MAINSTEM MISSOURI RIVER BASIN
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MISSOURI HEADWATERS	53	108	95
WEST SIDE MISSOURI	8	76	78
SMITH-BELT	5	112	96
MAINSTEM MISSOURI	13	92	87
SUN-TETON-MARIAS	7	87	83
JUDITH-MUSSELSHELL	8	106	90
MISSOURI above FORT PECK	72	104	93
MILK RIVER	9	114	102
MISSOURI in MONTANA	79	106	93
MISSOURI blw YELLOWSTONE	150	97	88

SMITH-JUDITH-MUSSELSHELL RIVER BASINS as of February 1, 1993

Snowpack conditions in the Smith-Judith-Musselshell River Basin remain near average and increased slightly during January. Snow water content was 92 percent of average and 105 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation during January was average at 100 percent and was 179 percent of last year. Water year precipitation, beginning October 1, 1992, remains near average at 106 percent of average and was 121 percent of last year.

Reservoir storage on the last day of January was 120 percent of average and 99 percent of last year. Smith River storage was 56 percent of average and 83 percent of last year, Bair storage was 111 percent of average and 86 percent of last year, Martinsdale storage was 142 percent of average and 83 percent of last year and Deadman's Basin was 120 percent of average and 105 percent of last year.

Streamflows are forecast to be near average at 93 percent and above those of last year. January streamflow for the Smith River near Fort Logan was well below average at about 60 percent and well below last January.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	50% (Most Prob) (% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SMITH RIVER near Fort Logan							
APR-JUL	30	48	60	96	72	90	62
APR-SEP	38	57	70	95	83	102	73
SHEEP CREEK nr White Sulphur Springs							
APR-JUL	12.3	15.1	16.9	93	18.7	22	18.1
APR-SEP	14.8	17.7	19.7	93	22	25	21
NF MUSSELSHELL near Delpine							
APR-JUL	2.2	3.6	4.5	93	5.4	6.8	4.8
APR-SEP	2.7	4.2	5.3	94	6.4	7.9	5.6

SF MUSSELSHELL abv Martinsdale							
APR-JUL	12.0	32	46	88	60	80	52
APR-SEP	15.0	36	50	89	64	85	56

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
SMITH RIVER	10.6	3.5	4.2	6.3
NEWLAN CREEK		NO REPORT		
BAIR	7.0	4.2	4.9	3.8
MARTINSDALE	23.1	5.8	7.0	9.2
DEADMAN'S BASIN	72.2	61.2	58.4	43.0

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SMITH-BELT	5	112	96
JUDITH-MUSSELSHELL	8	106	90

SUN-TETON-MARIAS RIVER BASINS as of February 1, 1993

Snowpack conditions in the Sun-Teton-Marias River Basin are below average, decreasing by 13 percent from January 1. Snow water content was 83 percent of average and 87 percent of last year. Refer to the watershed snowpack analysis that follows for individual watershed percent of average and percent of last year figures.

Mountain precipitation for January was 132 percent of average and 126 percent of last year. Water year precipitation, beginning October 1, 1992, was 101 percent of average and 99 percent of last year.
Reservoir storage on the last day of January was 109 percent of average and 93 percent of last year. Gibson storage was 74 percent of average and 72 percent of last year, Pishkun storage was 108 percent of average and 99 percent of last year, Willow Creek storage was 106 percent of average and 76 percent of last year, Lower Two Medicine Lake storage was 181 percent of average and 108 percent of last year, Four Horns Lake storage was 110 percent of average and 100 percent of last year, Swift storage was 80 percent of average and 84 percent of last year, Lake Frances storage was 45 percent of average and 44 percent of last year and Lake Elwell (Tiber) storage was 119 percent of average and 102 percent of last year.

Streamflows are forecast to be below average at 76 percent and 82 percent of last year. January streamflow for the Sun River at Gibson Dam was well below average at about 70 percent and below last January and the Marias River near Shelby was below average at about 85 percent and below last January.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - February 1, 1993

Forecast Pt / Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SUN RIVER at Gibson Dam			(2)				
APR-JUL	275	350	405	84	460	535	478
APR-SEP	310	395	450	85	505	590	526
TWO MEDICINE RIVER near Browning			(2)				
APR-JUL	95	144	177	82	210	260	215
APR-SEP	106	155	188	82	220	270	228
BADGER CREEK near Browning			(2)				
APR-JUL	46	68	82	78	96	118	104
APR-SEP	58	81	96	80	112	134	120
SWIFT RESERVOIR Inflow near Dupuyer							
APR-JUL	30	46	56	82	67	82	68
APR-SEP	39	56	67	83	78	95	80
DUPUYER CREEK near Valier							
APR-JUL	2.5	3.8	10.0	64	16.2	25	15.5
APR-SEP	3.2	4.9	11.4	65	17.9	28	17.4

CUT BANK CREEK at Cut Bank							
APR-JUL	36	51	61	70	71	87	87
APR-SEP	44	58	68	70	78	93	96
MARIAS RIVER near Shelby (2)							
APR-JUL	106	215	285	63	355	465	447
APR-SEP	122	230	305	62	380	490	487

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000AF) End of January

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
GIBSON	99.1	32.9	45.8	44.2
PISHKUN	32.0	19.2	19.3	17.7
WILLOW CREEK	32.2	22.5	29.7	21.2
LOWER TWO MEDICINE LAKE	11.9	12.1	11.2	6.1
FOUR HORNS LAKE	19.2	13.7	13.7	12.4
SWIFT	30.0	12.3	14.6	15.3
LAKE FRANCES	112.0	31.2	84.7	69.6
LAKE ELWELL (TIBER)	1347.0	694.6	682.3	583.0

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - February 1, 1993

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SUN-TETON	3	87	82
MARIAS	4	87	84
SUN-TETON-MARIAS	7	87	83